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FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS



WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in
cooperation with Federal, State and private organizations listed inside the
back cover of this report.

AS OF
MAY 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
GOLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS. FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

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SOIL CONSERVATION SERVICE
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Issued by

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STATE CONSERVATIONIST
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BOISE, IDAHO

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1966

The month of April was characterized by very light precipitation, warm winds and high temperatures near the end of the month. This pattern began near the first of March with very light snowfall and precipitation during March also. As a result of this situation, the water supply outlook has lowered considerably on all of the rivers in Idaho. Streamflow forecasts as of May 1 have been lowered around 10% below the forecasts made on April 1, which were already generally 20% below normal. The combination of two months of below normal precipitation and warm winds has increased the demand for irrigation water and compounded the problem in southern Idaho. Reservoir stored water can make up for most of the deficiencies forecast in streamflow for those rivers which have storage facilities. The rivers in southern Idaho without adequate storage can expect an early drop in streamflow. On several rivers, streamflow is already leveling off.

Soil in the area below the snow line has already dried out significantly and a heavier than normal rain storm would be necessary to produce additional runoff from this portion of the drainage. Ordinarily, spring rains fall on moist soils and therefore contribute to streamflow, but so far this spring, the soils have continued to dry out and rainfall falling after this date will be much less effective in producing runoff.

The rivers south of the Snake River have been effected the most by the dry spring conditions. The Raft River, Goose-Trapper Creeks, and Salmon Falls Creek were all forecast to flow well below normal, but at this time, flows are becoming critically low for so early in the year. Fortunately, reservoir stored water is well above normal and can make up for some of the streamflow deficiency. Farm and ranch operators in these areas should make careful note of their water supply for 1966 with special consideration given to the lowered forecasts resulting from a dry March and April. A continuation of the dry conditions would aggravate the problem still further.

The main stem of the Snake River near Blackfoot is forecast to flow 74% of its normal for the May through July period. Excellent carryover storage in the reservoirs can probably make up for this deficiency in streamflow during the irrigation season.

Streamflow on all of the rivers in Idaho during April was well below normal and in many cases among the lowest 10 years on rivers with 30 years or more of record.

RESERVOIR STORAGE (1,000 Ac. Ft.)

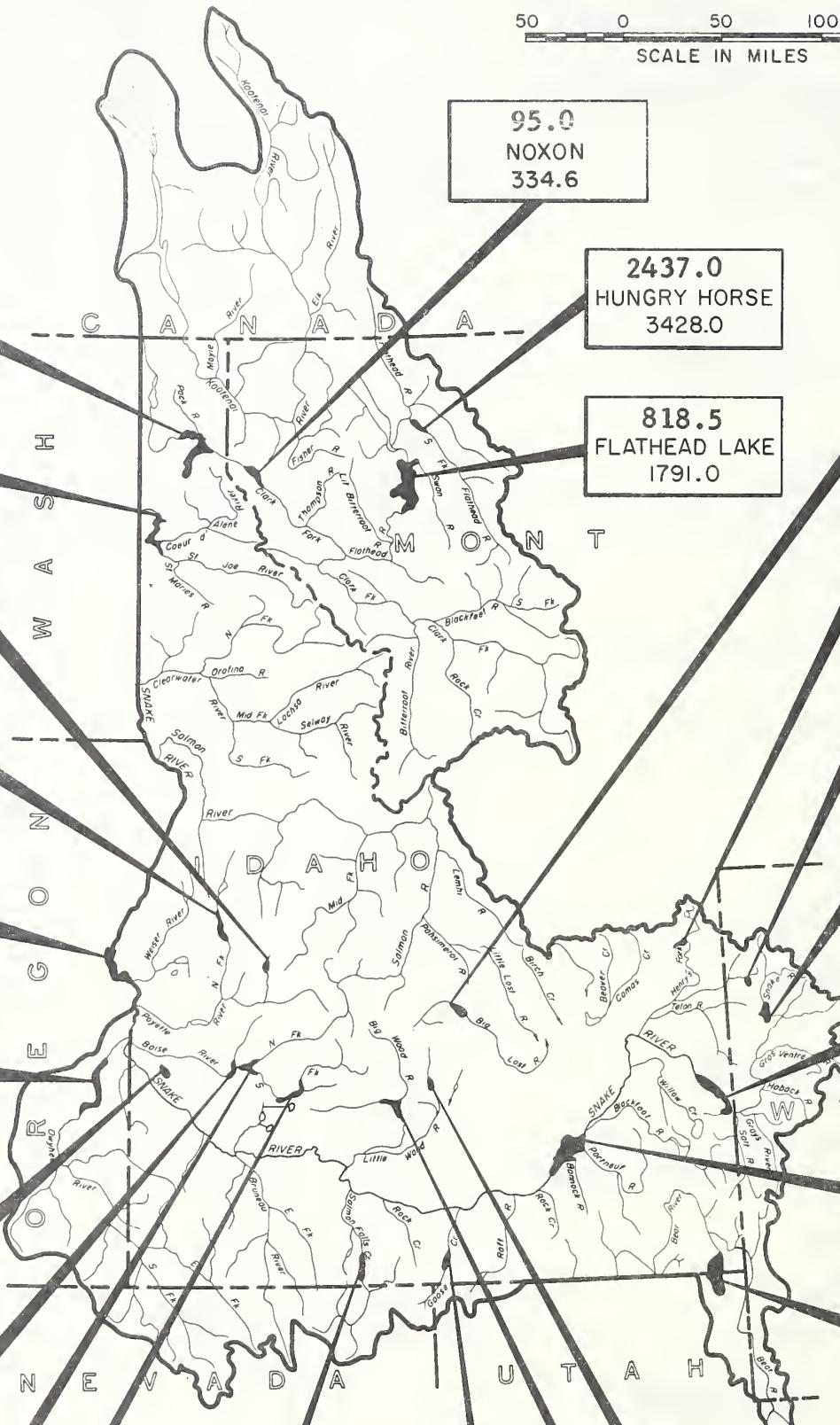
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2437.0	1564.0	2097.0*
Flathead	1791.0	818.5	1132.0	968.0
Pend Oreille	1561.0	955.2	1154.0	860.1
Noxon	334.6	95.0	170.1	--
<u>Spokane</u>				
Coeur d'Alene	238.5	186.2	524.3	347.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	673.8	401.0	422.9
Palisades	1200.0	1142.2	315.0	--
American Falls	1700.0	1519.2	1701.7	1625.1
Island Park	127.0	133.0	137.3	127.4
Grassy Lake	15.2	9.5	12.6	12.4
Brownlee	980.2	902.8	118.1	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	28.4	32.2	25.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	62.6	74.5	47.4
<u>Big Lost</u>				
Mackay	44.2	43.3	30.0	33.3
<u>Big Wood</u>				
Magic	191.5	191.5	187.0	171.1
<u>Little Wood</u>				
Little Wood	30.0	30.1	20.7	18.2
<u>Fish Creek</u>				
Carey Valley	14.4	14.0	14.4	--
<u>Boise</u>				
Anderson Ranch	423.2	398.7	261.3	239.7
Arrowrock	286.6	258.6	234.8	201.7
Lucky Peak	278.2	232.4	19.1	198.4*
Lake Lowell (Deer Flat)	169.0	126.2	165.7	157.9
<u>Owyhee</u>				
Owyhee	715.0	631.9	714.3	553.6
<u>Payette</u>				
Cascade	653.2	495.5	314.9	--
Deadwood	161.9	125.0	107.2	85.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1239.0	1016.8	983.5

* Period of Record.

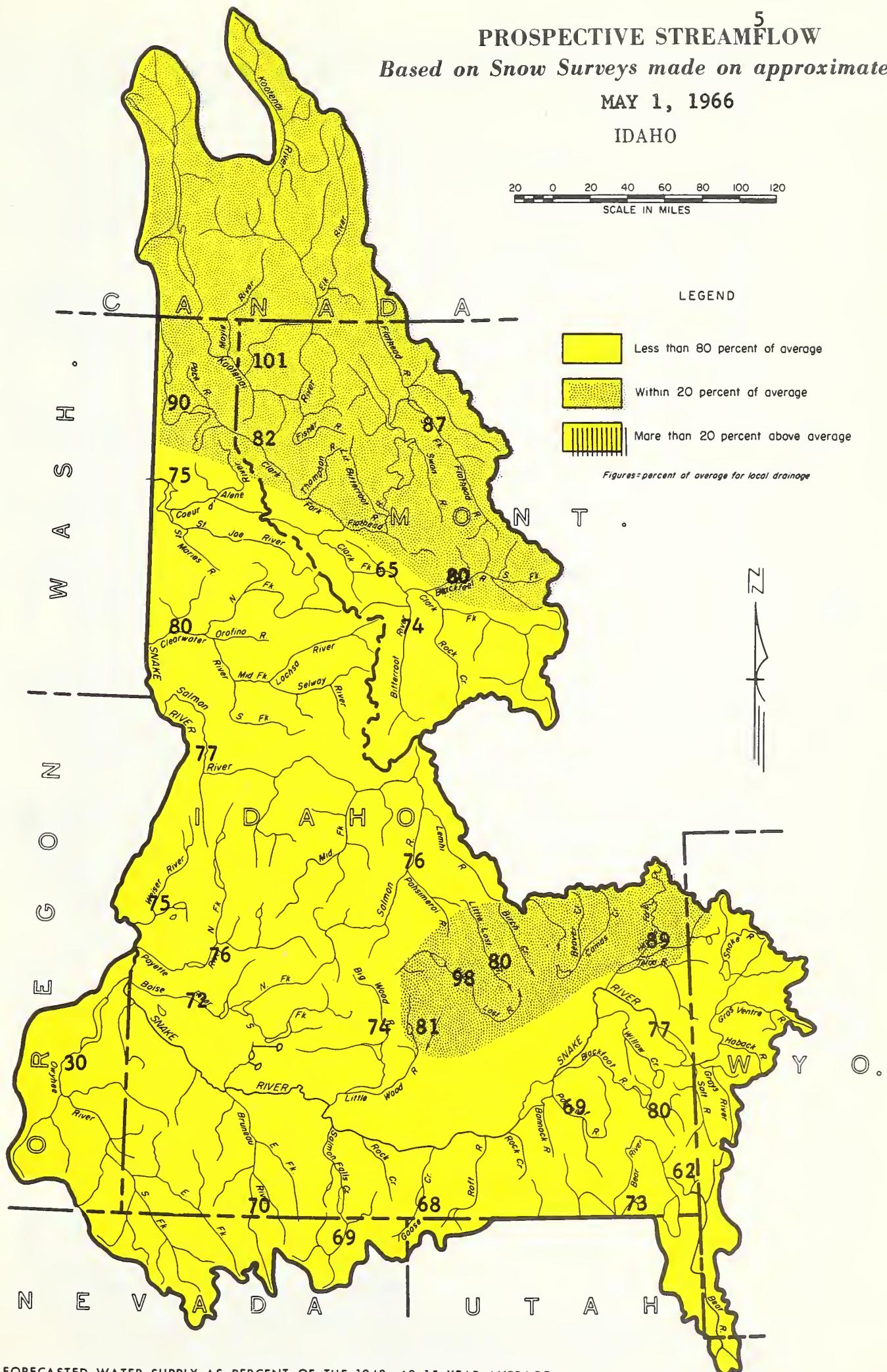
RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1966

50 0 50 100 150
SCALE IN MILESContents
RESERVOIR
Capacity955.2
PEND OREILLE
1561.0186.2
COEUR D'ALENE
238.5125.0
DEADWOOD
161.9495.5
CASCADE
653.2902.8
BROWNLEE
980.2631.9
OWYHEE
715.0126.2
LAKE LOWELL
169.0232.4
LUCKY PEAK
278.2258.6
ARROWROCK
286.6398.7
ANDERSON RANCH
423.295.0
NOXON
334.62437.0
HUNGRY HORSE
3428.0818.5
FLATHEAD LAKE
1791.043.3
MACKAY
44.2133.0
ISLAND PARK
127.09.5
GRASSY LAKE
15.2673.8
JACKSON LAKE
847.01142.2
PALISADES
1200.01519.2
AMERICAN FALLS
1700.01239.0
BEAR LAKE
1421.030.1
LITTLE WOOD
30.0191.5
MAGIC
191.562.6
SALMON FALLS
182.628.4
OAKLEY
74.4

PROSPECTIVE STREAMFLOW⁵
Based on Snow Surveys made on approximately
MAY 1, 1966
IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1948-62 15 YEAR AVERAGE

STREAMFLOW FORECASTS (May through September period)

Based on Snow Surveys made on approximately
MAY 1 1966

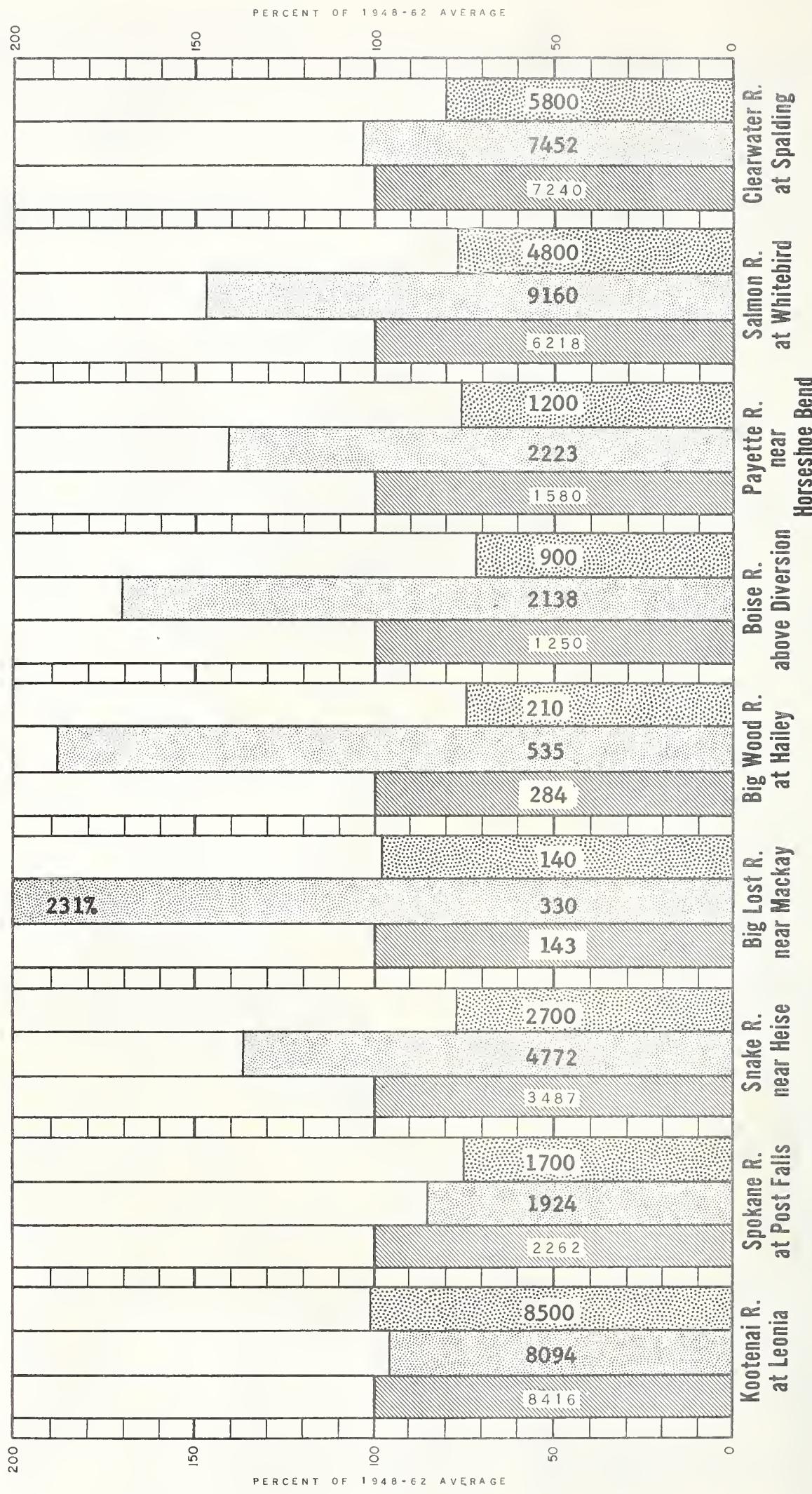
MAY 1, 1966

15 YR. AVERAGE ELOW 1948-62

LAST YEARS FLOW

THIS YEARS FORECAST

123 FLOW IN THOUSANDS OF ACRE FEET



STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
------------------------------	--------------------	-----------------	-----------	-------------------	---------------------------------

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	8500 7350 5750	May - Sep May - Jul May - Jun	8094 6899 5378	8416 7268 5690	101 101 101
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PEND OREILLE RIVERClark Fork River

Whitehorse Rapids	(at)	10350 9350 7800	May - Sep May - Jul May - Jun	14845 12951 10775	12580 11369 9499	82 82 82
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Priest River

Priest River 1/	(nr)	670	May - Jul	674	745	90
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SPOKANE RIVER

Post Falls 2/	(at)	1700	May - Sep	1924	2262	75
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Coeur d'Alene River

Cataldo	(nr)	660 620	May - Sep May - Jul	706 642	886 825	75 75
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St. Joe River

Calder	(at)	820 770	May - Sep May - Jul	1015 938	1099 1029	75 75
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SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran 3/	(at)	670	Apr - Sep	1115	865	77
Palisades Inflow 3/		2516	Apr - Sep	--	3314	76
Heise 4/	(nr)	2700	May - Sep	4772	3487	77
Blackfoot 5/	(nr)	2650	May - Jul	4903	3602	74
Weiser	(at)	3200	May - Sep	6814	5332	60

Henry's Fork

Ashton 6/	(nr)	450	May - Sep	640	508	89
Rexburg 7/	(nr)	850	May - Sep	1403	1113	76

Teton River

St. Anthony	(nr)	260	May - Sep	420	355	73
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Blackfoot River

Blackfoot						
Reservoir Inflow		82	Apr - Sep	--	102	80

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Portneuf River</u>					
Topaz	(at)	43	May - Sep	79	62
					69
<u>Oakley Reservoir Inflow</u>		12.2	May - Sep	25.8	17.9
					68
<u>Salmon Falls Creek</u>					
San Jacinto	(nr)	34	May - Sep	72	49
		32	May - Jul	65	46
					70
<u>Bruneau River</u>					
Hot Springs	(nr)	105	May - Sep	208	150
					70
<u>Little Lost River</u>					
Howe	(nr)	24	May - Sep	47	29
					80
<u>Big Lost River</u>					
Howell Ranch	(at)	120	May - Jun	201	120
Mackay 1/	(nr)	140	May - Sep	330	143
					98
<u>Big Wood River</u>					
Hailey 2/	(at)	210	May - Sep	535	284
Magic Reservoir					74
Inflow 3/		100	May - Jul	452	162
					62
<u>Little Wood River</u>					
High Five Creek	(ab)	48	May - Sep	145	59
					81
<u>Boise River</u>					
Twin Springs	(nr)	440	May - Sep	907	613
		400	May - Jul	818	561
Boise 4/	(nr)	900	May - Sep	2138	1250
					72
<u>South Fork</u>					
Anderson Dam 5/	(at)	320	May - Sep	892	483
					66
<u>Owyhee River</u>					
Gold Cr., Nev. 6/	(nr)	2	May - Jul	15	10
Owyhee, Nev. 6/	(nr)	10	May - Jul	54	42
Lake Owyhee		55	May - Sep	281	184
net inflow 7/		48	May - Jul	229	168
					29

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
Payette River					
Horseshoe Bend 1/	(nr)	1200	May - Sep	2223	1580 76
Banks 2/	(nr)	640	May - Jul	1216	846 76
North Fork					
Cascade 3/	(at)	370	May - Sep	627	483 77
Banks 3/	(nr)	460	May - Sep	804	604 76
		440	May - Jul	740	568 77
Weiser River					
Weiser ab. Crane Creek 4/		210	May - Sep	326	280 75
Salmon River					
Whitebird	(at)	4800	May - Sep	9160	6218 77
Challis	(nr)	630	May - Sep	1420	822 76
		540	May - Jul	1194	710 76
Clearwater River					
Spalding	(at)	5800	May - Sep	7452	7240 80
Kamiah	(at)	3390	May - Sep	4339	4238 80
		3210	May - Jul	4010	4023 80
North Fork					
Ahsahka	(nr)	2070	May - Sep	--	2590 80
		1910	May - Jul	--	2389 80
GREAT BASIN					
BEAR RIVER					
Harer	(at)	125	May - Sep	433	202 62
Montpelier Creek					
Montpelier	(nr)	6.5	May - Sep	18.2	9.4 69
Cub River					
Preston	(nr)	32	May - Sep	63	44* 73

* Partially estimated.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

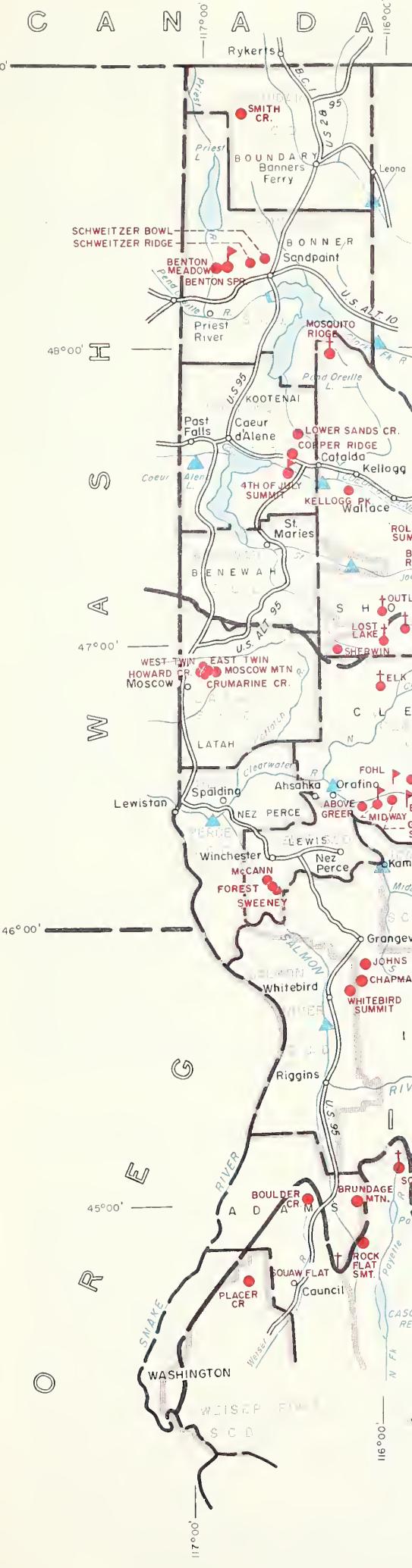
VALLEY PRECIPITATION 1/

Division Averages and Departures
In Inches

DRAINAGE DIVISIONS	Fall		Winter		Spring	
	Sep.-Nov.-1965 Obs.	Dep. 2/ Dep. 2/	Dec. '65-Mar. '66 Obs.	Dep. 2/ Dep. 2/	April 1966 Obs.	Dep. 2/ Dep. 2/
Kootenai, Canada & U. S.	6.25	-0.67	13.02	-1.01	1.02	-0.59
Flathead	4.72	-0.87	8.10	-1.77	0.78	-0.93
Clark Fork	3.36	+0.51	3.26	-1.15	0.48	-0.41
Pend Oreille-Spokane	5.44	-3.50	14.87	-3.74	0.89	-1.32
Upper Snake	4.93	+0.23	6.61	-4.60	1.27	-0.21
Snake River Plain	1.72	-0.27	2.71	-1.88	0.33	-0.37
Salmon-Payette-Boise	3.17	-1.24	6.97	-4.70	0.80	-0.65
Clearwater	4.46	-2.58	11.45	-2.08	1.22	-1.25
Southeastern Oregon	2.39	+0.19	2.48	-3.16	0.37	-0.38

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.



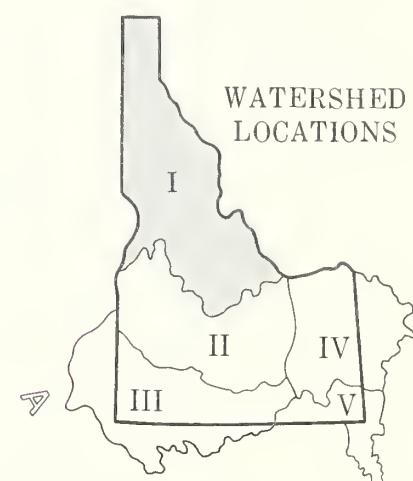
UPPER COLUMBIA and LOWER SNAKE RIVER BASINS

25 0 25 50 75
SCALE IN MILES

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aeriel Snow Depth Goge
- Soil Moisture Station

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE. LONG.	ELEV.
UPPER COLUMBIA BASIN													
KOOTENAI RIVER													
PEND OREILLE - PRIEST RIVER													
16A1	I	Smith Creek	29	64N	3W	4800	16C11	I	Above Greer	14	35N	2E	1240
16A2	I	Benton Meadow	27	58N	4W	2344	16C14m	I	Brown	11	35N	3E	3100
16A3M	I	Benton Spring	30	58N	3W	4900	15D5A	I	Buck Meadows	26	31N	8E	5600
16A6	I	Schweitzer Bowl	20	58N	2W	4500	15C3A	I	Cayuse Airstrip	4	38N	11E	3700
16A5	I	Schweitzer Ridge	19	58N	2W	6100	15C7	I	Coolwater Mountain	32	33N	8E	6200
SPOKANE RIVER													
15B8	I	Above Burke	11	48N	5E	4100	15C9A	I	Crater Meadows	2	37N	9E	6100
15B7	I	Above Roland	35	47N	6E	4350	16C15A	I	Elk Butte	6	40N	3E	5550
15B6	I	Below Roland	34	47N	6E	3770	15C2A	I	Fish Lake Airstrip	35	35N	11E	5000
16B2	I	Copper Ridge	6 & 7	50N	1W	4800	15C8m	I	Fohl	16	36N	5E	3450
16B3M	I	Fourth of July Summit	6	49N	1W	3100	16C9	I	Forest	1	32N	3W	4550
15B13A	I	Granite Peak	3	42N	8E	6000	15B3A	I	Forty-nine Meadows	6	43N	5E	5000
16B5A	I	Kellogg Peak	19	48N	3E	5560	14C9A	I	Goat Lake	4	38N	13E	6600
15B2M	I	Lookout	4	47N	6E	5250	16C13	I	Greer Summit	13	35N	2E	3000
16B1	I	Lower Sands Creek	32	51N	1W	3400	15C6A	I	Hemlock Butte	7	36N	7E	5500
15B4A	I	Medicine Ridge	24	43N	10E	6150	14D3	I	Kit Carson Pasture	4	27N	16E	5020
16A4A	I	Mosquito Ridge	5	54N	2E	5110	14C5	I	Lolo Pass	16	38N	15E	5230
15B12A	I	Outlaw Creek	19	44N	5E	3750	15B14A	I	Lost Lake	16	43N	4E	6000
15B5A	I	Roland Summit	26	47N	6E	5200	16C8	I	McCann	25	33N	3W	4300
16C1	I	Sherwin	28 & 33	42N	1E	3200	16C12M	I	Midway	14	35N	2E	2200
15B9A	I	Sunset	28	49N	5E	5600	15D6A	I	Mountain Meadows	9	27N	10E	6300
LOWER SNAKE BASIN													
PALOUSE RIVER													
16C6	I	Crumarine Creek	24	40N	5W	3500	13E19MA	I	Above Gilmore	13	13N	26E	8200
16C3	I	East Twin	13	40N	5W	4000	13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
16C5	I	Howard Creek	14	40N	5W	3500	15E2	I	Big Creek Summit	24	15N	5E	6600
16C2	I	Moscow Mountain	18	40N	4W	4800	13E8a	I	Borah	21	10N	23E	8250
16C4	I	West Twin	14	40N	5W	4200	16D6	I	Brundage Mountain	7	19N	3E	7700
CLEARWATER RIVER													
SALMON RIVER													
13E17A	I	Copes Camp	36	18N	22E	7500							
13D17a	I	Gertson Creek	22	22N	23E	8050							
13D2	M	Gibbons Pass	4	2S	19W	7100							
13D9	M	Gold Stone	11	8S	16W	8100							
13E20A	I	Hall Creek	1	16N	27E	7560							
16D3	I	Johns Creek	9	29N	2E	3805							
13E1	M	Lemhi Pass	9	10S	15W	7480							
13E18MA	I	Meadow Lake	24	13N	26E	9100							
14E1MA	I	Mill Creek Summit	8	13N	17E	8870							
13D16	I	Moose Creek	22 & 26	27N	21E	6200							
14E4	I	Morgan Creek	32	18N	19E	7580							
14E2	I	Redfish Lake	3	9N	13E	6600							
13E16A	I	Schwartz Lake	34	18N	22E	8500							
13E2	M	Trail Creek	15	10S	15W	7090							
14E3a	I	Twin Peaks	28	15N	17E	10300							
14F4A	I	Vienna Mine	32	6N	14E	8900							
16D5	I	Whitebird Summit	17	29N	2E	4390							
14D4	I	Williams Creek Summit	34	21N	20E	7800							

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) LAST YEAR	AVERAGE ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	16A1	4800	5/2	83	43.1	44.2	47.5*
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PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	4/28	0	0.0	0.0	0.0*
Benton Spring	16A3	4900	4/28	28	12.0	11.0	18.2
Schweitzer Bowl	16A6	4500	4/29	49	22.2	19.7	--
Schweitzer Ridge	16A5	6100	4/29	102	47.0	47.5	--

SPOKANE RIVER

Copper Ridge	16B2	4800	5/3	39	18.7	27.6	29.3
#Forty-nine Meadows	15B3	5000	4/29	48	22.8	20.2+	32.3*
Fourth of July Smt.	16B3	3100	4/29	0	0.0	0.0	--
Granite Peak	15B13	6000	4/29	87	45.0	52.4+	--
Lookout	15B2	5250	4/29	66	30.0	36.6	36.4
#Lost Lake	15B14	6000	4/29	114	49.8	70.9+	--
Lower Sands Creek	16B1	3400	5/3	31	13.4	16.6	14.2*
Medicine Ridge	15B4	6150	4/28	91	41.8	--	--
Outlaw Creek	15B12	3750	4/29	19	8.2	--	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3500	4/30	0	0.0	0.0	0.0*
East Twin	16C3	4000	4/30	0	0.0	0.0	0.0*
Howard Creek	16C5	3500	4/30	0	0.0	0.0	0.0*
Moscow Mountain	16C2	4800	4/30	26	10.6	5.8	12.0*
West Twin	16C4	4200	4/30	0	0.0	0.0	0.1*

CLEARWATER RIVER

Above Greer	16C11	1240	4/29	0	0.0	--	--
Buck Meadows	15D5	5600	4/29	41	19.6	22.1+	--
Cayuse Airstrip	15C3	3700	4/28	0	0.0	--	1.2*
Coolwater Mountain (R)	15C7	6200	5/1	--	30.0	31.6 (R)	--
Coolwater Mountain	15C7	6200	4/29	51	24.5	30.5+	--
Crater Meadows	15C9	6100	4/28	79	37.8	54.8+	--
Crooked Fork	--	3800	4/27	0	0.0	--	--
Elk Butte	16C15	5550	4/29	54	25.6	31.6+	--
Fish Lake Airstrip	15C2	5000	4/29	67	34.2	41.6+	45.4*
Forty-nine Meadows	15B3	5000	4/29	48	22.8	20.2+	32.3*
Goat Lake	14C9	6600	4/28	86	42.8	59.0+	--
#Granite Peak	15B13	6000	4/29	87	45.0	52.4+	--

+ Measurements taken 5/8/65 and 5/9/65

(b) 1948-62, 15 year period. * Not located directly on this drainage. • Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b
Greer Summit	16C13	3000	4/29	0	0.0	--	--
Hemlock Butte (R)	15C6	5500	5/1	--	40.6	59.3(R)	--
Hemlock Butte	15C6	5500	4/28	99	44.5	59.7+	--
Lolo Pass	14C5	5230	4/27	44	20.3	34.8	31.8*
Lost Lake	15B14	6000	4/29	114	49.8	70.9+	--
#Medicine Ridge	15B4	6150	4/28	91	41.8	--	--
Midway	16C12	2200	4/29	0	0.0	--	--
Mountain Meadows	15D6	6300	4/29	34	17.3	31.2+	--
#Nez Perce Pass Mont.	14D1	6575	4/27	24	6.0	19.8	13.3
Orogrande Mountain	15D4	7800	4/29	90	37.8	61.7+	--
Pierce Ranger Station	15C5	3170	4/29	1	0.3	1.8	1.6*
Powell Ranger Station	14C6	3650	4/27	0	0.0	0.0	--
Savage Pass	14C4	6600	4/26	49	21.2	35.4	27.7*
Shanghai Summit	15C4	4600	4/28	24	10.1	23.3+	25.2*

Salmon River

Big Creek Summit	15E2	6600	4/29	63	29.2	47.4	36.8*
Borah (A)	13E8	8250	4/29	0	0.0	2.8	--
#Boulder Creek	16D1	5500	4/27	29	11.4	21.8	--
Brundage Mountain	16D6	7700	4/27	90	40.5	63.2	--
Chapman Creek	16D2	4215	5/2	0	0.0	0.0	0.3*
#Deadwood Summit (A)	15E4	7000	4/28	72	35.0	63.2	48.5*
#Galena Summit	14F12	8795	4/28	40	15.6	41.2	23.3*
#Gibbons Pass Mont.	13D2	7100	4/28	30	12.8	29.2	23.1
Johns Creek	16D3	3805	5/2	0	0.0	0.0	0.0*
Mill Creek Summit (A)	14E1	8870	4/29	38	14.1	37.8	--
Morgan Creek	14E4	7580	5/2	7	2.8	20.0	--
#Rock Flat Summit	16E1	5200	4/27	32	12.1	20.5	14.9*
#Squaw Flat (A)	16E5	6230	4/28	41	19.0	20.9	--
#Squaw Meadow (A)	15D2	5800	4/28	60	29.2	36.9	37.9*
Twin Peaks (A)	14E3	10300	4/29	45	15.8	39.2	--
Vienna Mine (A)	14F4	8900	5/3	45	17.6	48.2	38.3*
Whitebird Summit	16D5	4390	5/2	0	0.0	0.0	0.6*

Lemhi River

Above Gilmore (A)	13E19	8200	5/1	17	5.8	23.4	--
Aspen-Hall Pass (A)	13E21	8110	5/1	21	7.1	17.6	--
Copes Camp (A)	13E17	7500	5/1	6	2.4	6.3	--
Gertson Creek (A)	13D17	8050	4/29	0	0.0	--	--
Hall Creek (A)	13E20	7560	5/1	0	0.0	0.0	--
Meadow Lake (A)	13E18	9100	5/1	37	12.6	39.7	--
Schwartz Lake (A)	13E16	8500	5/1	24	8.2	25.4	--

+ Measurements taken 5/8/65 and 5/9/65

(b) 1948-62, 15 year period. * Not located directly on this drainage. • Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	4/29	10.0	10.3	10.2
Lookout	5250	48	11.0	4/29	8.5	8.7	7.7
<u>CLEARWATER RIVER</u>							
Brown	3100	30	6.7	4/29	5.5	5.6	5.7
Fohl	3450	48	13.3	4/29	9.8	10.4	11.0
Midway	2200	36	6.1	4/29	4.9	--	5.0
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	3/30	4.8*	3.1	--
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	3/29	2.8*	--	3.0
Meadow Lake	9100	48	4.4	3/29	1.9*	--	2.5

* April 1 measurement.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	5850	4/28	0	0.0	--	--
Lost-Garfield	13E3	5700	4/28	0	0.0	--	--
Moonshine	13E6	7250	4/28	3	1.4	--	--
Sawmill Canyon	13E4	6000	4/28	0	0.0	--	--

LITTLE WOOD RIVER

Garfield Rgr. Sta.	13F4	6554	4/27	0	0.0	7.0	0.5*
Muldoon	13F5	6300	4/27	0	0.0	0.0	0.0*
Porcupine (A)	14F14	8350	5/3	11	4.3	35.0	--
Swede Peak	13F9	7500	4/27	27	10.6	26.6	12.3*

BIG WOOD RIVER

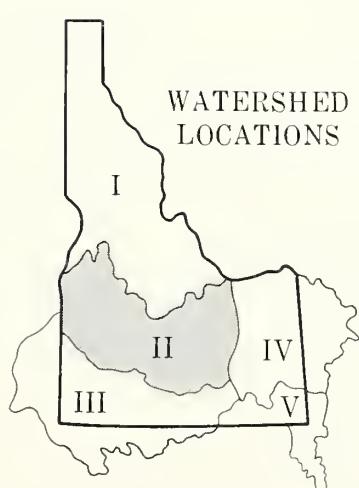
#Couch Summit (A)	14F10	6950	5/3	11	4.8	18.0	13.4*
Dollarhide Summit (A)	14F8	8620	5/3	14	6.1	40.8	27.6*
Galena	14F1	7500	4/28	13	5.7	29.4	13.1*
Galena Summit	14F12	8795	4/28	40	15.6	41.2	23.3*
Graham Ranch	14F5	6200	4/28	4	1.6	12.8	--
Mount Baldy	14F9	9000	4/28	46	16.1	39.2	21.2*
Soldier Rgr. Sta.	14F11	6100	5/1	0	0.0	0.0	--

BOISE RIVER

Atlanta Summit (A)	15F4	7500	4/28	67	27.1	49.0	35.9*
Bad Bear	15F2	5500	4/28	0	0.0	12.2	--
#Bogus Basin	16F2	6120	4/30	26	10.6	27.2	22.3
Bogus Basin Road	16F4	5360	4/30	0	0.0	0.0	--
Couch Summit (A)	14F10	6950	5/3	11	4.8	18.0	13.4*
#Dollarhide Summit (A)	14F8	8620	5/3	14	6.1	40.8	27.6*
Jackson Peak (A)	15E9	7000	4/28	66	26.7	46.7	31.7*
Moores Creek Summit	15F1	6100	4/28	48	22.0	43.4	30.0
Road Creek (A)	15F3	5550	4/28	0	0.0	--	2.0*
#Soldier Rgr. Sta.	14F11	6100	5/1	0	0.0	0.0	--
Trinity Mountain	15F5	7400	4/27	70	34.0	64.2	44.5*
Vienna Mine (A)	14F4	8900	5/3	45	17.6	48.2	38.3*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- △ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▴ Soil Moisture Station

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. OR ANO	ELEV. OR LONG.	NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. OR ANO	ELEV. OR LONG.											
MIDDLE SNAKE RIVER BASIN NORTHSIDE																								
LITTLE LOST RIVER																								
13E5M	I	Fairview Guard Station	27	12N	26E	6750	15F4A	I	Atlanta Summit	29	5N	10E	7500											
13E3	I	Lost-Garfield	3	11N	26E	6600	15F2M	I	Bad Bear	35	7N	6E	5500											
13E6	I	Moonshine	31	13N	26E	7450	16F4	I	Bogus Basin	32	5N	3E	5360											
13E4	I	Sawmill Canyon	17	12N	26E	6900	16F5m	I	Bogus Basin Road	36	5N	2E	4830											
13E7MA	I	Wet Creek Summit	15	8N	25E	8175	14F10A	I	Couch Summit	9	2N	14E	6950											
BIG LOST RIVER																								
13F3	I	Bear Canyon	26	5N	21E	8600	15F10a	I	Danskin	17	1N	7E	5650											
13F13a	I	Cherry Creek Pass	7	5N	23E	8900	16F1	I	Deadman Gulch	24	7N	3E	5600											
13F2A	I	Copper Basin	24	6N	21E	8000	15E9A	I	Jackson Peak	7	8N	9E	7000											
13F11	I	Iron Bog	23	4N	22E	7650	15F11M	I	Moores Creek Summit	19	7N	7E	6100											
13F12	I	Leadbelt	34	4N	23E	6800	15F6	I	Prairie	13	2N	7E	4900											
14F3A	I	Lost Wood Divide	19	6N	19E	8750	15F3A	I	Road Creek	5	5N	8E	5550											
14F15a	I	North Fork Meadow	20	7N	18E	8150	15F5A	I	Trinity Mountain	7	3N	9E	7400											
13F14	I	Slickrock	17	4N	22E	8640	15F11a	I	Willow Creek Cabin	26	1N	6E	4710											
14F2A	I	Stickney Mill	9	6N	19E	7500	CANYON CREEK																	
13F15a	I	Twin Rocks	22	4N	22E	8100	15F7	I	Bennett Mountain	7	2S	9E	6650											
13F1	I	White Knob	25	7N	23E	7700	15F8	I	Dixie Hill	13	2S	8E	5230											
BIG WOOD RIVER																								
15F9a	I	Camas Creeks Divide	11	2S	9E	5720	15F12a	I	Little Camas Flat	21	1S	9E	4950											
14F8A	I	Dollarhide Summit	16	3N	15E	8620	15F13a	I	Long Tom	19	1S	8E	4550											
14F1M	I	Galena	3	6N	15E	7300	PAYETTE RIVER																	
14F12M	I	Galena Summit	33	7N	15E	8795	16F2M	I	Bogus Basin	16	5N	3E	6120											
14F5	I	Graham Ranch	.10	5N	17E	6200	15E8	I	Cozy Cove	19	11N	7E	5900											
14F7	I	Mascot Mine	8	4N	20E	7900	15E3	I	Crawford Ranger Station	21	14N	4E	4800											
14F9	I	Mount Baldy	26	4N	17E	9000	15E10	I	Deadwood Airstrip	8	11N	7E	5440											
14F11	I	Soldier Ranger Station	19	2N	14E	6100	15E7	I	Deadwood Dam	8	11N	7E	5290											
LITTLE WOOD RIVER																								
13F4M	I	Garfield Ranger Station	11	3N	21E	6554	15E4A	I	Deadwood Summit	23	14N	7E	7000											
13F5	I	Muldoon	25	3N	21E	6300	16E7a	I	Greenfield Flat	1	13N	2E	7370											
14F13m	I	Niggerhead	26	2N	20E	5450	16E4	I	High Valley Summit	9	10N	2E	5170											
14F14a	I	Porcupine	30	4N	20E	8350	15E1	I	Lake Fork	3	18N	4E	6000											
13F9A	I	Swede Peak	4	3N	21E	7500	16E1	I	Rock Flat Summit	1	18N	2E	5200											
FISH CREEK																								
13F10	I	Iron Mine Creek	32	3N	23E	6370	15E5A	I	Silver Creek Ridge	24	12N	5E	5700											
13F6	I	Telfer Ranch	12	2N	22E	6000	15D2A	I	Squaw Meadow	5	21N	4E	5800											
WEISER RIVER																								
16D1	I	Boulder Creek	15				16E3	I	Tripod Summit	17	11N	3E	5200											
16E6a	I	Mica Ridge	15				LEGEND																	
16E2	I	Placer Creek	15	&	16		Numbering System (example)																	
16E5a	I	Squaw Flat	32																					
10J7		SNOW COURSE ONLY.					10J7P		SNOW COURSE AND PRECIPITATION GAGE.															
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.					10J7A		SNOW COURSE AND AERIAL MARKER.															
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10J7 p		STORAGE PRECIPITATION GAGE ONLY.																						

LEGEND

Numbering System (example)

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SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

PAYETTE RIVER

#Big Creek Summit	15E2	6600	4/29	63	29.2	47.4	36.8*
Bogus Basin	16F2	6120	4/30	26	10.6	27.2	22.3
#Brundage Mountain	16D6	7700	4/27	90	40.5	63.2	--
Cozy Cove	15E8	5900	4/27	14	6.2	15.0	9.3
Crawford Rgr. Sta.	15E3	4800	4/29	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/26	7	2.9	12.2	4.6*
Deadwood Dam	15E7	5500	4/27	15	6.0	14.7	13.4
Deadwood Summit (A)	15E4	7000	4/28	72	35.0	63.2	48.5*
Greenfield Flat (A)	16E7	7370	4/28	67	31.0	58.0	--
#Jackson Peak (A)	15E9	7000	4/28	66	26.7	46.7	31.7*
#Mica Ridge (A)	16E6	6800	4/28	51	23.6	35.4	--
Rock Flat Summit	16E1	5200	4/27	32	12.1	20.5	14.9*
#Squaw Flat (A)	16E5	6230	4/28	41	19.0	20.9	--
Squaw Meadow (A)	15D2	5800	4/28	60	29.2	36.9	37.9*

WEISER RIVER

Boulder Creek	16D1	5500	4/27	29	11.4	21.8	--
Boulder Creek (New)	16D1	5500	4/27	12	4.6	--	--
Mica Ridge (A)	16E6	6800	4/28	51	23.6	35.4	--
Squaw Flat (A)	16E5	6230	4/28	41	19.0	20.9	--

SOIL MOISTURE

STATION	PROFILE (Inches)			SOIL MOISTURE (Inches)				
	NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE WOOD RIVER</u>								
Garfield R. S.	6554		36	5.2	4/27	5.3	5.0	4.8
<u>BIG WOOD RIVER</u>								
Galena	7300		48	10.1	4/28	8.9	--	8.6
Galena Summit	8795		48	5.8	4/28	2.3	1.8	1.9
<u>BOISE RIVER</u>								
Bad Bear	5500		72	6.3	4/28	5.5	5.6	5.6
Bogus Basin Road	4830		48	7.1	5/2	5.5	--	5.8
Moores Creek Summit	6100		60	8.8	4/28	7.7	--	7.9

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	LAST YEAR
							b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp (A)	13G2	7600	4/29	11	4.5	17.0	--
Clear Creek Meadows (A)	13H2	9050	4/29	61	24.7	48.1	--
Howell Canyon	13G1	8000	4/28	21	8.5	34.5	--
Summit Springs (A)	13G4	8500	4/29	T	T	0.0	--

GOOSE CREEK

Badger Gulch	14G3	6660	4/29	T	T	7.7	--
Bostetter Rgr. Sta. (A)	14G1	7500	4/29	0	0.0	12.2	--
Vi Pont (A)	13H3	7670	4/29	0	0.0	16.4	--

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	4/28	27	10.2	24.1	21.0*
Cedar Creek (A)	14G5	7000	4/28	0	0.0	0.0	2.1*
Deadline	14G4	6900	4/27	15	6.8	26.0	18.8*
Goat Creek (A)	15H13	8800	4/28	17	6.4	21.7	19.4*
#Hummingbird Springs (A)	15H15	8945	4/28	35	13.2	31.9	25.1*
Magic Mountain	14G2	6700	4/27	13	5.1	22.0	15.4*
#Pole Creek R. S.	15H14	8330	4/26	33	12.4	26.8	22.2*
Red Point (A)	15H18	7940	4/28	0	0.0	6.0	--
Wilson Creek (A)	15G2	7500	4/28	0	0.0	2.4	--

BRUNEAU RIVER

Bear Creek (A)	15H1	7800	4/28	27	10.2	24.1	21.0*
Hummingbird Springs (A)	15H15	8945	4/28	35	13.2	31.9	25.1*
Pole Creek R. S.	15H14	8330	4/26	33	12.4	26.8	22.2*
#Seventy-six Creek (A)	15H3	7100	4/28	0	0.0	--	--

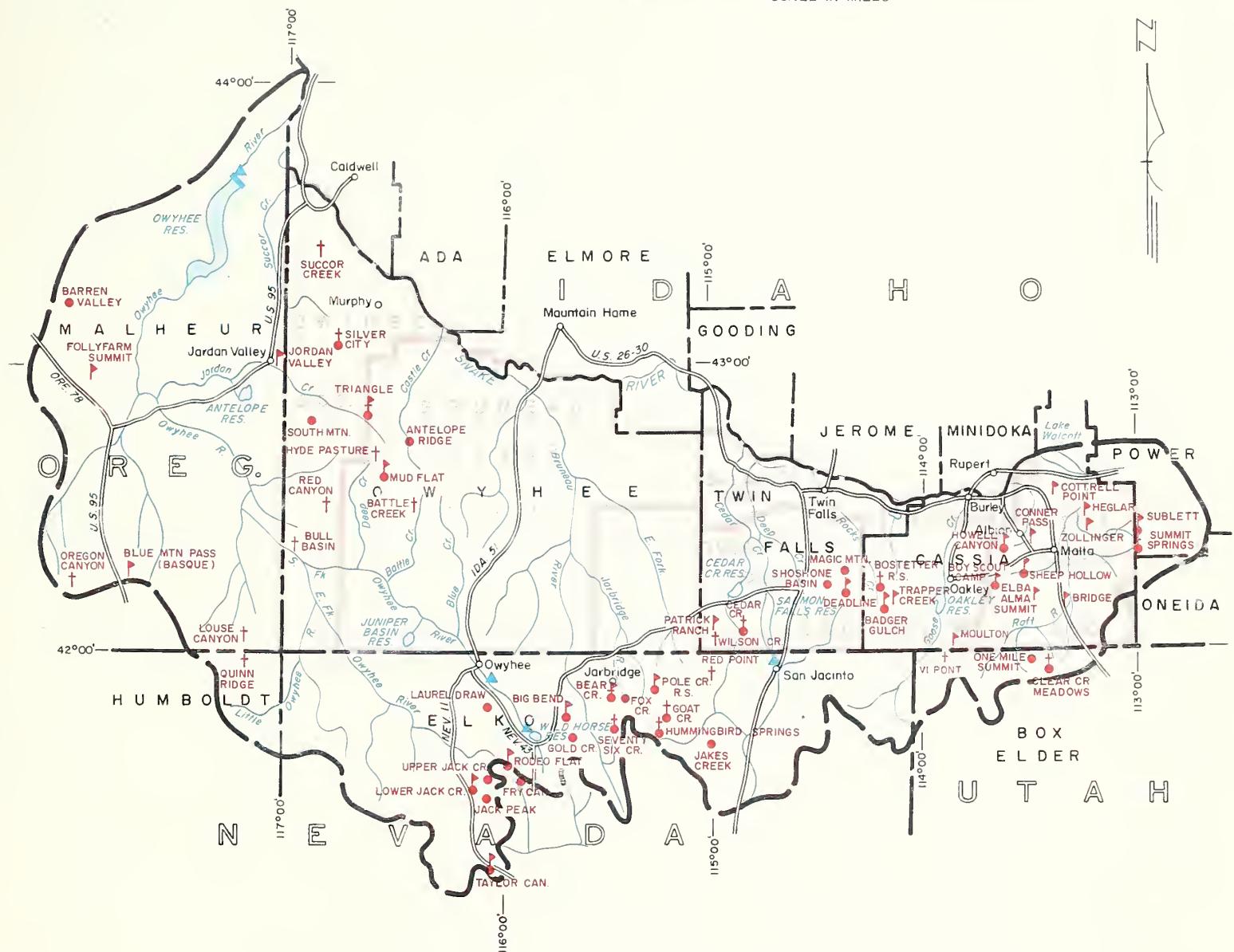
OWYHEE RIVER

Antelope Ridge	16G6	5900	4/29	0	0.0	0.0	--
#Bear Creek (A)	15H1	7800	4/28	27	10.2	24.1	21.0*
Mud Flat	16G7	5500	4/29	0	0.0	0.0	--
#Seventy-six Creek (A)	15H3	7100	4/28	0	0.0	--	--
Silver City	16F3	6400	4/29	0	0.0	3.5	6.1*

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aeriel Snow Depth Gage
- Soil Moisture Station

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.	NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.							
MIDDLE SNAKE RIVER BASIN																				
SOUTHSIDE																				
RAFT RIVER																				
13G2A	I	Boy Scout Camp	12	14S	23E	7600	15H1MA	N	Bear Creek	31	46N	58E	7800							
13G11m	I	Bridge	7	15S	27E	4750	15H2	N	Fox Creek	33	46N	58E	6800							
13H2A	U	Clear Creek Meadows	26	14N	14W	9050	15H15A	N	Hummingbird Springs	6	45N	60E	8945							
13G6m	I	Conner Pass	35	12S	25E	5700	15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330							
13G7m	I	Cottrell Point	24	10S	25E	4490	BRUNEAU RIVER													
13G10m	I	Elba-Almo Summit	29	14S	25E	5690	16G6	I	Antelope Ridge	20	8S	1E	5900							
13G8m	I	Heglar	19	11S	28E	4590	18F5	O	Barren Valley	26	27S	38E	4200							
13G11	I	Howell Canyon	2	13S	24E	8000	16G9a	I	Battle Creek	10	11S	1E	5700							
13G12m	I	Moulton	27	16S	23E	5950	15H4M	N	Big Bend	30	45N	56E	6700							
13H1	U	One Mile Summit	19	14N	14W	7330	17G2m	O	Blue Mountain Pass (Basque)	4	38S	42E	5290							
13G5m	I	Sheep Hollow	4	14S	24E	6200	16G10a	I	Bull Basin	29	12S	6W	5600							
13G3m	I	Sublett	8	12S	30E	6000	18G3m	O	Folly Farm Summit	8	30S	38E	4450							
13G4A	I	Summit Springs	15	13S	30E	8500	15H7	N	Fry Canyon	31	43N	54E	6700							
13G9m	I	Zollinger	2	13S	28E	5000	15H5	N	Gold Creek	31	45N	56E	6600							
GOOSE - TRAPPER CREEK																				
14G3M	I	Badger Gulch	24	15S	19E	6660	16G5a	I	Hyde Pasture	SE $\frac{1}{2}$	31	8S	2W	5800						
14G1A	I	Bostetter Ranger Station	35	14S	19E	7500	16H4	N	Jacks Peak	28	42N	53E	8420							
14G7m	I	Trapper Creek	2	15S	20E	5300	17G3m	O	Jordan Valley	2	30S	46E	4390							
13H3a	U	Vi Pont	17	14N	17W	7670	16H5	N	Laurel Draw	20	45N	53E	6700							
SALMON FALLS CREEK																				
14G5A	I	Cedar Creek	25	15S	13E	7000	17G4a	O	Louse Canyon	27	40S	44E	6440							
14G4M	I	Deadline	25	14S	18E	6900	16H1M	N	Lower Jack Creek	18	42N	53E	6800							
15H13A	N	Goat Creek	31	46N	60E	8800	16G7M	I	Mud Flat	34	9S	2W	5500							
14H1	N	Jakes Creek	6	42N	62E	7000	17G5a	O	Oregon Canyon	9	40S	40E	6950							
14G2	I	Magic Mountain	14	14S	18E	6700	17H6a	N	Quinn Ridge	9	47N	41E	6300							
15G1m	I	Patrick Ranch	23	15S	12E	5720	16G11a	I	Red Canyon	32	11S	4W	6650							
15H18a	N	Red Point	15	47N	61E	7940	15H6M	N	Rodeo Flat	36	43N	53E	6800							
14G6	I	Shoshone Basin	24	14S	17E	5740	16F3A	I	Silver City	6	5S	3W	6400							
15G2a	I	Wilson Creek	24	16S	12E	7500	16G1	I	South Mountain	35	7S	5W	6340							
LEGEND																				
Numbering System (example)																				
10J7		SNOW COURSE ONLY.					16F6a	I	Succor Creek	25	3S	5W	6100							
10J7P		SNOW COURSE AND PRECIPITATION GAGE.					15H9M	N	Taylor Canyon	35	39N	53E	6200							
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.					16G4MA	I	Triangle	N $\frac{1}{2}$	25	7S	3W	5150						
10J7A		SNOW COURSE AND AERIAL MARKER.					16H2	N	Upper Jack Creek	9	42N	53E	7250							
10J7M		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.																		
10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.																		
10J7m		SOIL MOISTURE STATION ONLY.																		
10J7 a		AERIAL MARKER ONLY.																		
10J7 p		STORAGE PRECIPITATION GAGE ONLY.																		

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7M	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
RAFT RIVER							
Conner Pass	5700	36	9.8	4/5	9.1*	10.3	--
Howell Canyon	8000	48	11.5	4/28	10.6	6.0	4.6
Sheep Hollow	6200	36	7.5	3/29	6.5*	--	--
Sublett	6000	36	7.0	3/29	6.6*	--	--
GOOSE CREEK							
Badger Gulch	6660	36	7.0	3/29	5.5*	6.9	7.4
Trapper Creek	5300	36	10.0	3/29	7.6*	8.0	--
SALMON FALLS CREEK							
Deadline	6900	36	7.4	4/27	7.3	8.2	--
Patrick Ranch	5720	36	7.7	4/26	4.9	--	--
BRUNEAU RIVER							
Bear Creek	7800	72	16.9	3/28	12.1*	--	--
OWYHEE RIVER							
Mud Flat	5500	48	12.8	4/29	14.4	14.2	--

* April 1 measurement.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	PAST RECORD
						LAST YEAR	AVERAGE <i>b</i>

UPPER SNAKE RIVER BASINHENRYS FORK RIVER

Big Springs	11E9	6500	4/29	21	9.2	21.0	--
Grassy Lake	10E15	7230	5/1	52	26.4	39.2	33.1
Island Park	11E10	6315	4/29	9	2.9	11.9	--
Valley View	11E8	6500	4/29	20	7.8	18.6	--

TETON RIVER

Darby Canyon (A)	10F21	8250	4/29	42	18.2	25.4	--
Pine Creek Pass	11F2	6750	4/29	0	0.0	12.0	--
State Line	11F1	6400	4/29	0	0.0	9.6	7.9*
Teton Pass	10F13	8500	4/29	58	25.2	43.6	37.8*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/29	10.0	10.4	10.2
Valley View	6500	48	13.3	4/29	8.7	13.2	9.8
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	4/29	12.6	14.0	9.8
State Line	6400	48	14.8	4/29	14.7	15.1	13.6
Teton Pass	8500	48	10.5	4/29	11.8	11.8	11.5
<u>PORTNEUF RIVER</u>							
Lower Pebble	5800	36	7.6	3/28	8.3*	--	--
Pebble Creek	6550	48	7.2	3/31	6.4*	--	--

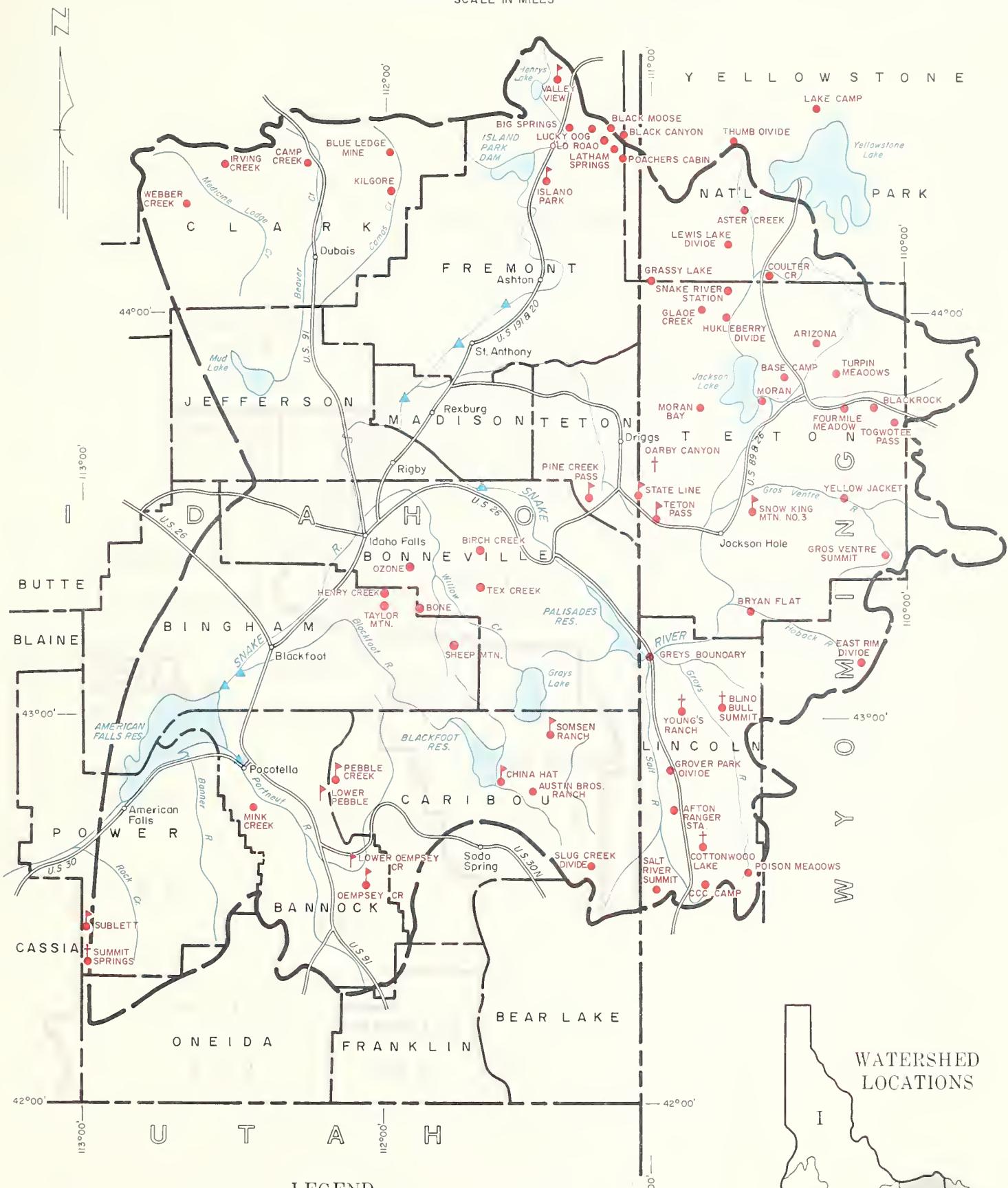
* April 1 measurement.

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent.

(R) Radioactive Gage snow-water equivalent.

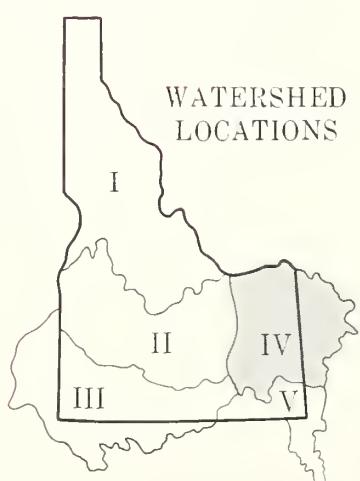
UPPER SNAKE RIVER BASIN

25 0 25 50
SCALE IN MILES



LEGEND

—	Watershed Boundary
—	Soil Conservation District Bdry
—	County Boundary
▲	Forecast Point
●	Snow Course
†	Aerial Snow Depth Gage
‡	Soil Moisture Station



INDEX to SNOW COURSES

NU.	STATE	NAME	SEC. LAT.	TWP. AND	RGE. LONG.	ELEV.	NU.	STATE	NAME	SEC. LAT.	TWP. AND	RGE. LONG.	ELEV.								
UPPER SNAKE RIVER BASIN																					
SNAKE RIVER - WYOMING																					
10G4	Wy	Afton Ranger Station	30	32N	118W	6200	10F21a	Wy	Darby Canyon	28	43N	118W	8250								
10F1	Wy	Arizona	3	46N	115W	6850	11F2M	I	Pine Creek Pass	24	3N	44E	6750								
10E8	Wy	Aster Creek	44°17'		110°38'	7700	11F1M	I	State Line	32	3N	46E	6400								
10F2	Wy	Base Camp	20	46N	113W	6900	10F13M	Wy	Teton Pass	24	41N	118W	8500								
10F7	Wy	Blackrock	4	44N	111W	8600	TETON RIVER														
10G2A	Wy	Blind Bull	6	34N	115W	8750	CAMAS - BEAVER CREEK														
10F14	Wy	Bryan Flat	9	38N	115W	6250	11E11	I	Blue Ledge Mine	27	13N	38E	6700								
10E3	Wy	Canyon	44°44'		110°30'	7750	12E3	I	Camp Creek	21	13N	36E	6800								
10G7	Wy	CCC Camp	9	29N	118W	7500	11E12	I	Kilgore	6	12N	39E	6200								
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500	MEDICINE LODGE CREEK														
10E10	Wy	Coulter Creek	44°09'		110°33'	7600	12E4	I	Irving Creek	8	13N	33E	7035								
10F17	Wy	East Rim Divide	32	37N	111W	7950	12E5	I	Webber Creek	23	12N	32E	6700								
10F6	Wy	Four Mile Meadows	35	45N	112W	7770	WILLOW CREEK														
10E13	Wy	Glade Creek	12	48N	116W	7200	11F3	I	Birch Creek	36	2N	41E	6300								
10F18	Wy	Greys Boundary	33	37N	118W	5800	11F8	I	Bone	29	1S	40E	6200								
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750	11F4	I	Czone	14	1N	39E	5800								
10G3	Wy	Grover Park Divide	27	33N	118W	7500	11F9	I	Sheep Mountain	32	2S	41E	6300								
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	11F5	I	Tex Creek	6	1S	42E	6700								
10E4	Wy	Lake Camp	44°34'		110°24'	7850	SAND CREEK														
10E9	Wy	Lewis Lake Divide	44°13'		110°40'	7900	11F6	I	Henry Creek	7	1S	39E	5650								
10F4	Wy	Moran	8 & 17	45N	114W	6800	11F7	I	Taylor Mountain	19	1S	39E	6500								
10F3	Wy	Moran Bay	14	45N	116W	6800	BLACKFOOT RIVER														
10E2	Wy	Norris Basin	44°44'		110°42'	7500	11G3	I	Austin Brothers Ranch	28	7S	43E	6450								
10G6	Wy	Poison Meadows	29	30N	116W	8500	11G2M	I	China Hat	17	7S	42E	6300								
10G8	Wy	Salt River Summit	32	29N	118W	7900	11G5	I	Slug Creek Divide	15	10S	44E	7225								
10E12	Wy	Snake River Station	9	48N	115W	6780	11G1M	I	Somsen Ranch	25	5S	43E	7000								
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600	PORTNEUF RIVER														
10E5	Wy	Sylvan Pass	12	52N	110W	7100	12G5M	I	Dempsey Creek	17	10S	38E	6280								
10E7	Wy	Thumb Divide	44°22'		110°35'	7900	12G7M	I	Lower Dempsey	5	10S	38E	5210								
10F9	Wy	Togwotee Pass	29	44N	110W	9600	12G6M	I	Lower Pebble	7	8S	33E	5800								
10F5	Wy	Turpin Meadows	14	45N	112W	6930	12G1	I	Mink Creek	33	7S	34E	6300								
10G1A	Wy	Young's Ranch	26	34N	116W	6530	12G2M	I	Pebble Creek	34	7S	37E	6550								
HENRYS FORK RIVER																					
11E9	I	Big Springs	34	14N	44E	6500	LEGEND														
11E13	I	Black Canyon	11	13N	45E	7850	Numbering System (example)														
11E19	I	Black Moose	33	14N	45E	3125	10J7		SNOW COURSE ONLY.												
10E15	Wy	Grassy Lake	6	48N	117W	7230	10J7P		SNOW COURSE AND PRECIPITATION GAGE.												
11E10M	I	Island Park	29	13N	43E	6315	10J7M		SNOW COURSE AND SOIL MOISTURE STATION.												
11E16	I	Lathan Springs	9	13N	45E	7650	10J7A		SNOW COURSE AND AERIAL MARKER.												
11E14	I	Lucky Dog	2	13N	45E	6900	10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.												
11E15	I	Old Road	12	13N	44E	7250	10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.												
11E17	I	Poacher's Cabin	11	13N	45E	8000	10J7m		SOIL MOISTURE STATION ONLY.												
11E8M	I	Valley View	7	15N	44E	6500	10J7 a		AERIAL MARKER ONLY.												
							10J7 p		STORAGE PRECIPITATION GAGE ONLY.												

LEGEND

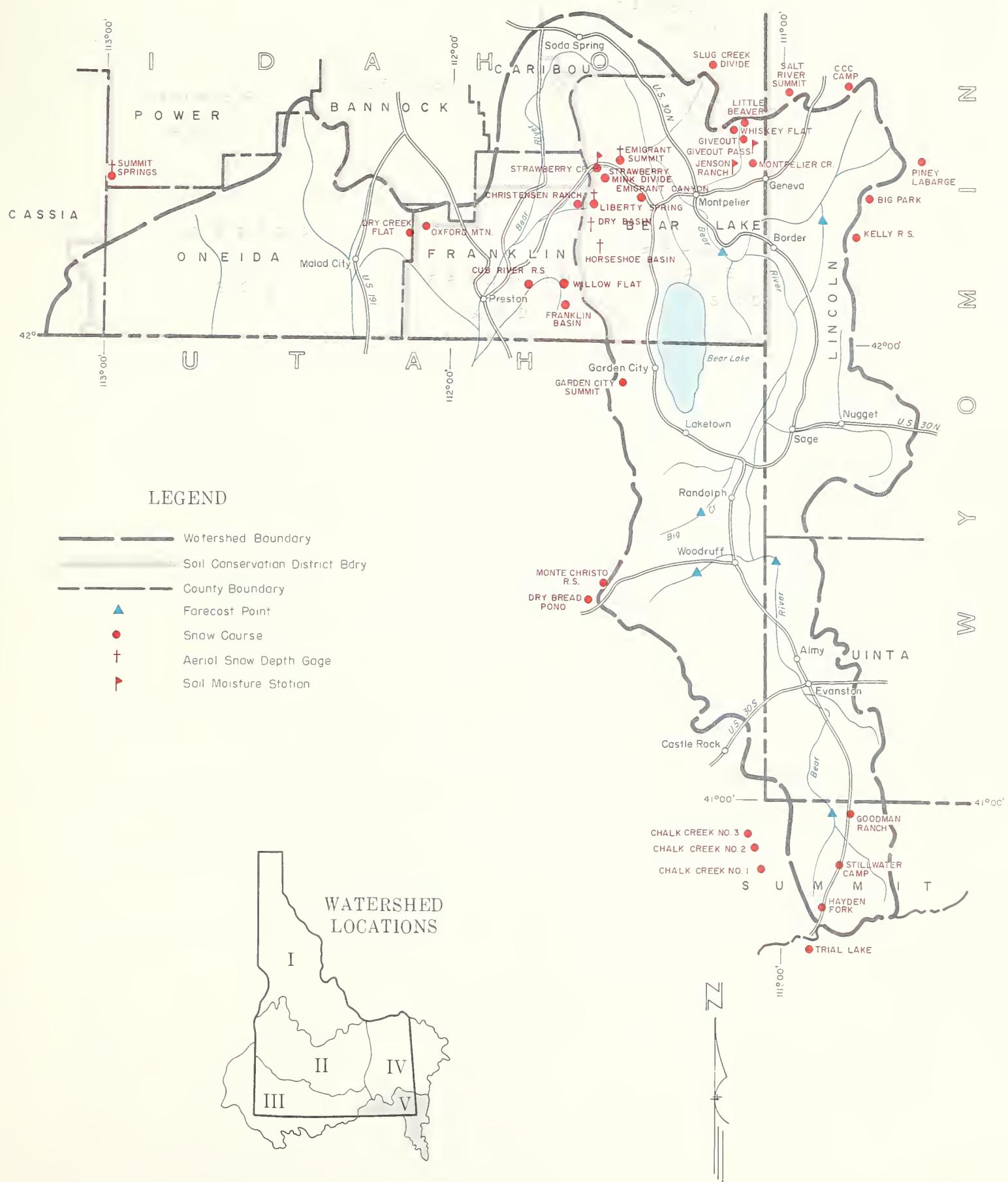
Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

GREAT BASIN

25 0 25 50
SCALE IN MILES

G



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR ANO	RGE.	ELEV.
			LAT.	LONG.		

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6	U	Goodman Ranch	19	3N	10E	7900
10J7	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550

MONTPELIER CREEK

11G16	I	Giveout	35	11S	45E	6840
11G17m	I	Giveout Pass	2	12S	45E	7025
11G19m	I	Jenson Ranch	15	12S	45E	6580
11G20	I	Little Beaver	26	11S	45E	6970
11G18	I	Montpelier Creek	22	12S	45E	6570
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14a	I	Dry Basin	30	13S	42E	7900
11G6M	I	Emigrant Summit	21	12S	42E	7350
11G15a	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100

MALAD RIVER

12G4	I	Dry Creek Flat	31	13S	37E	6350
12G3	I	Oxford Mountain	32	13S	37E	6800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE b

GREAT BASINBEAR RIVER

Emigrant Summit	11G6	7350	4/29	27	12.8	33.0	--
-----------------	------	------	------	----	------	------	----

Mink Creek

Christensen Ranch	11G11	5600	4/27	0	0.0	0.0	0.0*
Dry Basin (A)	11G14	7900	4/30	39	16.8	--	--
#Emigrant Summit	11G6	7350	4/29	27	12.8	33.0	--
Horseshoe Basin (A)	11G15	8000	4/30	37	15.9	--	--
Liberty Spring	11G13	8600	4/27	64	27.6	54.3	--
Strawberry Creek	11G9	5800	4/27	0	0.0	0.0	1.3*
Strawberry Mink Divide	11G10	6800	4/27	11	4.6	23.3	13.3*

Cub River

Cub River R. S.	11G12	5400	4/28	0	0.0	0.0	0.0*
Willow Flat	11G4	6100	4/28	0	0.0	6.4	2.4*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	4/29	6.6	6.5	7.0
Strawberry Creek	5800	48	12.7	4/29	12.2	12.2	13.4
<u>Montpelier Creek</u>							
Giveout Pass	7025	48	12.6	3/28	8.6*	--	--
Jenson Ranch	6580	48	18.7	3/28	11.3*	--	--

* April 1 measurement.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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